



**KEEPING MOBILE PHONE/SMART WATCH, EVEN IN 'OFF' POSITION, IS EXAM MALPRACTICE**

**Answer ALL Questions**

**(10 X 10 = 100 Marks)**

1. For the signal  $x(t)$  shown in figure, draw the signals:

- (a)  $x(t - 1)$
- (b)  $x(2 - t)$
- (c)  $x(2t + 1)$
- (d)  $x(4 - \frac{t}{2})$
- (e)  $\{x(t) + x(-t)\}u(t)$



2. a) Find whether the following signals are periodic, if yes, find the periodicity

- i.  $x(t) = 2 \cos t + 3 \cos \frac{t}{3}$
- ii.  $x(t) = 2 \cos \pi t + 7 \cos t$

[5]

- b) Determine whether the following signals are energy signals or power signals and calculate their energy or power

[5]

- a)  $x(t) = \text{rect}\left(\frac{t}{T_0}\right)$
- b)  $x(t) = \cos^2 \omega_0 t$
- c)  $x(t) = \text{rect}\left(\frac{t}{T_0}\right) \cos \omega_0 t$

3. The following CT systems are described using their input-output relationships between the input signal  $x(t)$  and output  $y(t)$ . Determine if the CT systems are: (i) linear; (ii) time-invariant; (iii) stable; and (iv) causal.

- (a)  $y(t) = x(t - 2)$
- (b)  $y(t) = tx(t + 10)$
- (c)  $y(t) = \begin{cases} x(t) - x(t - 5) & t \geq 0 \\ 0 & t < 0 \end{cases}$

4. Obtain the trigonometric Fourier series of the periodic waveform shown in the figure below:



$$\frac{1}{2\pi} \int_{-\pi}^{\pi} f(t) e^{j n \omega_0 t} dt = \frac{1}{2\pi} \left[ \int_{-\pi}^{-\pi/2} 0 \cdot e^{j n \omega_0 t} dt + \int_{-\pi/2}^0 1 \cdot e^{j n \omega_0 t} dt + \int_0^{\pi/2} -1 \cdot e^{j n \omega_0 t} dt + \int_{\pi/2}^{\pi} 0 \cdot e^{j n \omega_0 t} dt \right]$$

$$= \frac{1}{2\pi} \left[ \frac{e^{j n \omega_0 t}}{j n \omega_0} \Big|_{-\pi/2}^0 - \frac{e^{j n \omega_0 t}}{j n \omega_0} \Big|_0^{\pi/2} \right] = \frac{1}{2\pi} \left[ \frac{1}{j n \omega_0} - \frac{e^{j n \omega_0 \pi/2}}{j n \omega_0} \right]$$

$$= \frac{1}{2\pi} \frac{1 - e^{j n \omega_0 \pi/2}}{j n \omega_0}$$

# Nlogic Systems Question Papers

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